

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 07/12302

| <b>A. CLASSIFICATION OF SUBJECT MATTER</b><br>IPC(8) - B31B 1/00 (2007.10)<br>USPC - 493/394<br>According to International Patent Classification (IPC) or to both national classification and IPC  |  |  |
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| <b>B. FIELDS SEARCHED</b><br>Minimum documentation searched (classification system followed by classification symbols)<br>USPC: 493/394  |  |  |
| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched<br>USPC: 73/761,778,801,653,655,656; 493/394 (text search, see terms below)  |  |  |
| Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)<br>PubWEST(PGPB,USPT,EPAB,JPAB); Google<br>Search Terms: probe, reader, ultrasonic, optical, image, transducer, load, stress, strain, bar code  |  |  |
| <b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>  |  |  |
| Category*  | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No.  |
| X<br>--<br>Y   | US 2004/0065154 A1 (KIBBLEWHITE) 08 April 2004 (08.04.2004), para [0022], [0026], [0044], [0053]-[0057], [0061], Fig 1   | 1-5, 9, 13, 16-19, 35-37, 39-43, 45-47, 50-52  |
| Y  | US 5,018,988 A (KIBBLEWHITE) 28 May 1991 (28.05.1991), col 3, ln 50-56, col 5, ln 64 to col 6, ln 51, col 7, ln 18-34, col 11, ln 3-44   | 6-8, 10-12, 14, 15, 20-34, 38, 44, 48-49, 53   |
| Y  | US 5,018,988 A (KIBBLEWHITE) 28 May 1991 (28.05.1991), col 3, ln 50-56, col 5, ln 64 to col 6, ln 51, col 7, ln 18-34, col 11, ln 3-44   | 6-8, 10-12, 14, 15, 38, 44 and 53  |
| Y  | US 6,340,868 B1 (LYS et al.) 22 January 2002 (22.01.2002), col 2, ln 39-59, col 10, ln 60 to col 11, ln 49, col 12, ln 52-67, col 28, ln 26 to col 29, ln 4, col 67, ln 26-42, col 75, ln 43-60, Fig 69-74 | 20-34, 48, 49  |
| A  | US 2006/0004290 A1 (SMITH et al.) 05 January 2006 (05.01.2006), entire document  | 1-53   |
| A  | US 5,211,061 A (GOODWIN) 18 May 1993 (18.05.1993), entire document   | 1-53   |
| <input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/>   |  |  |
| * Special categories of cited documents:<br>"A" document defining the general state of the art which is not considered to be of particular relevance<br>"E" earlier application or patent but published on or after the international filing date<br>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)<br>"O" document referring to an oral disclosure, use, exhibition or other means<br>"P" document published prior to the international filing date but later than the priority date claimed<br>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention<br>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone<br>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art<br>"&" document member of the same patent family |  |  |
| Date of the actual completion of the international search<br>03 December 2007 (03.12.2007)   |  | Date of mailing of the international search report<br><b>22 FEB 2008</b>                   |
| Name and mailing address of the ISA/US<br>Mail Stop PCT, Attn: ISA/US, Commissioner for Patents<br>P.O. Box 1450, Alexandria, Virginia 22313-1450<br>Facsimile No. 571-273-3201  |  | Authorized officer:<br>Lee W. Young<br>PCT Helpdesk: 571-272-4300<br>PCT OSP: 571-272-7774 |